

## "DUMMY LOAD" TAKES OVER THE "ARC"

THE ANCHORAGE AMATEUR RADIO CLUB RAILROAD IS ON TRACK AGAIN. I, AL7DL (DUMMY LOAD) HAVE TAKEN OVER THE EDITORSHIP OF THE CLUB NEWSLETTER FROM DAVID, KL7LO. THE WHOLE THING STARTED OVER THE FACT THAT DAVID WAS GOING TO BE ON THE IDITAROD TRAIL WHEN THE NEWSLETTER HAD TO GO OUT AND HE ASKED IF I WOULD FILL IN IN THE INTERIUM. THINGS LED TO THINGS AND I HAD THE JOB ON LETS SAY A MORE THAN TEMPORARY BASIS. ANYWAY, DAVID'S IS A HARD ACT TO FOLLOW, BUT I WILL TRY TO KEEP UP HIS HIGH STANDARDS. I'VE HAD SOME EXPERIANCE IN THE EDITING BUSINESS AS BEFORE "UNCLE SAM" GAVE ME THIS ALL EXPENSES PAID TRIP TO "THE GREAT LAND" I WAS EDITOR FOR THE BELLEVUE (NEBRASKA) AMATEUR RADIO CLUB "SPARK GAP". I HAVE A SIMPLE PHILOSOPHY WHEN IT COMES TO HEADING UP A CLUB NEWSLETTER; IT'S MY NEWSLETTER, IT'S YOUR NEWSLETTER, ABOVE ALL IT'S THE CLUB'S NEWSLETTER. I EXPECT THAT WITH ALL THE TALENT WE HAVE OUT THERE I WILL NOT BE WANTING FOR ARTICLES. DON'T BE AT ALL SURPRIZED IF SOMEDAY I STEP UP TO YOU AND SAY; "SMILE, I NEED A NEWSLETTER ARTICLE FROM YOU. I WILL PUBLISH THE NEXT DEADLINE IN THE NEWSLETTER AND AT THE MEETINGS. MY ADDRESS IS 21-694 D APRICOT ST. ELMENDORF AFB, AK 99506. MY HOME PHONE IS 753-6395.

73 FOR NOW

BRYCE RUMERY, AL7DL

\* \* \* \* \*

# ANCHORAGE ARC

-----"THE VOICE OF THE ANCHORAGE AMATEUR RADIO CLUB"-----

P.O. BOX 1987

Anchorage, Alaska 99510-1987

Telephone 345-0719

APRIL 1982

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### INVOLVEMENT --- AN EDITORIAL BY BRYCE RUMERY, AL7DL

*I have been editing a newsletter in Bellevue Nebraska for the last couple of years and have been involved with the Bellevue Amateur Radio Club as well. I have seen many clubs in my travels with the Air Force. A universal problem with clubs, large and small, is general member apathy and lack of involvement by the members in club affairs. Most clubs have about 10% of the membership ever doing anything. Think about it, at club meetings it seems like the same people are always raising their hands when there is something to be done. How about the rest of you out there??? If you think that all your time will be taken up with volunteer work for the club...limit yourself to only a few things, but get involved!!! Of course Ham radio is a hobby and should not interfere with job and family, but surely most of you can find an hour or so each week to devote to the betterment of the club and amateur radio in general. It takes everyone in the club, pulling together, to make the club go. If you come to club meetings and hear the powers that be making decisions that you don't like, do more than voice your opinion....get involved with the decision making process....volunteer for committees and help YOUR club get going. Involvement is like voting, if you don't do it for God's sakes don't criticize, for you have added nothing to the overall good. THINK about what you are doing for YOUR club and the next time a call is made for volunteers.... DO IT.... For yourself, your club and for amateur radio. In my opinion, a club has no right to exist if the membership wants only to carry a membership card, wear a name tag or a patch and say "I am a club member". A viable club can only continue and prosper if the membership is alive, involved, and caring about the affairs of the club. There's always a "George" around to do things, but the burden shouldn't all be put on his shoulders.....*



## APRIL CALENDAR OF EVENTS.....

THIS IS GOING TO BE A BUSY MONTH FOLKS.....BREAK UP IS HERE, PULL ON THE HIP WADERS AND MAKE A TRIP OUT TO YOUR FAVORITE CLUB EVENT.....

APRIL 2ND	GENERAL CLUB MEETING, UAA CONSORTIUM LIBRARY, 7:00 PM
APRIL 3RD	ANNUAL "PARKA" SPRING BANQUET, HICKORY HOUSE ON MULDOON RD. INVITATIONS ARE EXTENDED TO ALL NEWLY LICENSED "YLS", NEWLY LICENSED HAMS, OR FORMER PARKA MEMBERS (SPOUSES ARE ALSO INCLUDED) AS MARY, KL7BJD, SAYS; THIS ONE'S FOR HUSBANDS & SWEETHEARTS. PLEASE RSVP MARY AT 276-5447 OR MARGE, KL7GLU AFTER 5PM AT 279-1240 ON OR BEFORE APRIL 1ST.
APRIL 3RD	IDITAROD HAM WRAPUP AND DEBRIEFING PARTY. THIS ONE IS FOR THOSE WHO PARTICIPATED IN IDITAROD <u>ONLY</u> . THE LOCATION IS THE ESTATES OF FRED TOLIVER, KL7HM, 5300 E 98TH ST (OFF BIRCH RD.), ANCHORAGE. THE FUN WILL BEGIN AT 3PM AND END AT 11PM. ADULTS ONLY PLEASE AND BYOB. SNACKS PROVIDED...
APRIL 18TH	CLUB SOCIAL, A BUNNY HUNT (HOW NICE THIS BEING THE EASTER SEASON AND ALL). PRIZES WILL AWARDED TO THE WINNER(S). MORE DETAILS IN KL7EB'S ARTICLE ON THE RULES.....
APRIL 21ST	MONTHLY BOARD OF DIRECTORS MEETING, DATCO REALTY, 4TH AND DENALI, 7:00 PM

[illegible]

## BREAK UP WANT ADS FOR APRIL

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(get 'em before they float away)
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FOR SALE    DAVE VOGEL, NL7P, OFFERS THIS BEAUTIFUL STATION: Yaesu FT-901DM, cw and am filters, spare 6146W finals, microphone, speaker, and service manual, \$1000.00; Yaesu FV-901DM remote VFO, 40 memories, auto scanning, \$350.00; Yaesu FL-2100B amplifier, new finals, 10 meters, \$400.00. Dave can be reached at: 612 North Lane St., Anchorage , 99504 277-2967(home)

FOR SALE      Yaesu FI-101E (late model), FV-101B external VFO, SP-101 spkr,  
Shure 444 desk mike (Fox Tango Club modified), Spare finals,  
Service manual. \$550.00 takes it all. Bryce Rumery, AL7DL,  
21-694 D Apricot St. Elmendorf AFB, AK 99506 753-6395  
(someone please give this fine station a good home)

WANTED Schematic for Hammerlund 600 Receiver, also a schematic for a Heathkit antenna switchbox. KL7SV, 344-5790

WANTED 50 feet of Rohn tower, Desk mike for Heathkit SB-102  
KA5LEU, Wayne Bettis, 552-3341 (work)

WANTED 100 feet of RG-8, 1KW dummy load, 1KW Low Pass Filter,  
desk mike for FT-101E. Fred, KL7SE, 694-4002

[illegible]

WANT ADS ARE PLACED FREE OF CHARGE TO MEMBERS OF THE ANCHORAGE AMATEUR RADIO CLUB, INC. TO PLACE AN AD CALL THE NEWSLETTER EDITOR, BRYCE RUMERY, AL7DL, 753-6395home/552-3371work(midnight to 8PM Sunday thru Wednesday) or the club phone: 345-0719. ADS CAN ALSO BE MAILED TO "YE ED", AT: 21-694p Apricot St. Elmendorf AFB, AK 99506



Anchorage Amateur Radio Club  
General Meeting  
March 5, 1982

The meeting was called to order by President Betty Rhodes KL7AP at 7:10 p.m. Following introductions, Betty KL7AP announced the need for a hospitality chairman.

First contact certificates were presented, or announced if recipients were absent, by Stan Griffith W7NI to: George Maguire WL7ARV, Jim Steigerwald KL7SL, Glenn Turner AL7DN, Sherman Reynolds KL7QY, Rod Maney KL7SA, Mike Peterson KL7SR, John Pash KL7SI, Art Taylor KL7SK, Fred Kletka KL7SE, Ginger Weed AL7DT (WT7AAF), John Stechman KL7SN, Robert Faultersack KL7SV, and Hans Buchholdt KL7SQ.

President Betty KL7AP displayed a plaque given to the club by the Little League team in appreciation of our support. Steve Norrell KL7IYX is our Little League representative.

Roy Hanson KL7GQ received a plaque for his handling of emergency traffic for the Prinsendam survivors.

Joe Talbott KL7NK put out a sign-up sheet for volunteers for handling Iditarod traffic at headquarters, and Ken Delp KL7FD announced a separate meeting for Iditarod people to be held after the program.

Stan Griffith W7NI, who has been an amateur operator for 29 years and has made over 120,000 contacts, narrated an excellent slide presentation on unusual antennas and towers.

Following break, Steve Wilcox KL7JIM was accepted and approved by the members to fill the remainder of Lloyd Fuller KL7JGN's one-year position on the Board of Directors.

Two new life members were voted in: Glen Greeley KL7BI, #60; and Tim Michael NL7D, #61. Life membership certificates were presented to Russell Scott KL7EM, Erv Edge AL7CN, Bob McKinnie AL7AW, and Arlene Steward KL7HO.

Bill Balzarini KL7BB discussed and passed out flyers for a forthcoming Seattle Hamfest.

Jim Smith KA7APJ, representing the Alaska Statehood Silver Anniversary Convention Committee, recommended that International Amateur Radio Forum '84 be held in Anchorage in June of 1984. He distributed copies of a feasibility report done by the committee.

Bill Reiter KL7ITI, as chairman of amateur communications for the annual Walk For Hope, discussed the positions that will need to be filled.

Following discussion of the need for another fund-raising raffle, Larry Walter KL7IWC moved that we have an equipment raffle with the drawing to be held on Field Day. The motion was seconded and passed. Jerry George KL7PU moved that details of the raffle be deferred to the board. Motion was seconded and carried.

President Betty KL7AP read a letter requesting volunteers for a Health Fair at the Dimond Center. She also announced the Spokane Swap Fest to be held on April 24.

Wilse Morgan KL7CQ invited someone to work with our SCM toward informing the club of the benefits to be derived from ARRL membership. Fred Wegmer KL7HFM graciously volunteered to fill that position.

Following door prize drawings, the meeting was adjourned at 10:45 p.m.

Respectfully submitted,  
Arlene Steward KL7HO, Secretary

Attendance 112

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### ON THE ROAD AGAIN WITH WILSE, KL7CQ

*Our roving representative of radio is at it again. Wilse Morgan, KL7CQ recently returned from a trip to Washington State where he had been asked to MC and auctioneer for the Mike & Key ARC "DO DAH DIT" electronics flea market. This was the first of its kind for the Redmond, WA area and it looks like it's going to be (as the flyer said) an annual affair. The event was chaired by our own Bill Balzarini, KL7BB. Wilse reports it was a smashing success with over 1500 people in attendance. It was held at the Longacres race track in Redmond. Betty is now wondering where to put all the "junque" Wilse hauled back with him. Me thinks that part of the trip was a trade off of hamburger for steak..... 'Fess up Wilse!!*



## BETTY'S BLURBS . . . . .

Bryce, AL7DL has been after me to get this month's article done so the newsletter can be put to bed, so.. after trying to figure out what to write about I gave up and decided to fill you in a little on the tales of the Iditarod.

The last great race on earth--the Iditarod Dog Sled Race from Anchorage to Nome got started on March 6 and is still going as of today, March 20. The record of 14 days + some hours has passed with the lead mushers in Shaktoolik holed up due to weather. Hams are still strung out along the trail acting as the official communications network and in many instances the only way communications can be gotten in and out of checkpoints.

It was with great pleasure that I got to go on the trail this year as the ham in Nikolai. Unfortunately, the weather wasn't cooperating so I wound up with a 2 day layover in McGrath with KL7IEN, WB4WBL, and KL7EB. Rooming with the guys really wasn't all that bad considering the rooms over the Iditarod Cafe in McGrath usually rent for \$30 a bed-- 2 beds to a room, 4 rooms and 1 bathroom. Male chilvalry was at its finest when all the Iditarod bunch turned in for the first night--10 men, 8 beds, and poor little me...you guessed it right I got the floor. Oh well, at least I did make it into my checkpoint of Nikolai on the second try --got lost the first time in--1/4 mile visibility in a Super Cub and Nikolai is only about a 1/4 mile wide.

The first 15 dog teams were already in Nikolai when I landed and the first order was the Race Marshall, Jack Helms bellowing "Get that station on the air!" so I did. Sure am glad the dipole has had a practice drill at home cause it sure was patient as I waded through thigh high snow to tie the ends down. I really lucked out having a good ole Rohn 45 tower to hang the antenna on --whoops, minor problem, need to throw this end over the telephone line and this other one over the feedline for the microwave TV--oh well the inverted vee up 15 feet will just have to do for a little while--better hang something on the wire so no one hangs himself on the way to the outhouse. The TS120 with power supply set up very nicely in the corner of the village office--just a little prayer was said as the connections were made and the "on" switch was thrown. Uh-oh...why am I getting little dots and no read out--please don't let this happen to me--check everything before panicking...whew! the fixed crystal button had gotten pushed in--hooray a beautiful digital display 7240.0 ..... KL7AA this is KL7AP, Nikolai on the air, do you copy?? KL7AA did actually copy my signal so after breathing a sigh of relief I sat down to the next 48 hours of dog traffic, phone patches, messages and usual reports.

Dave Cloyd, KL7M had persuaded me to take the two meter rig and a 3 element beam to Nikolai to try some path tests off of Mt McKinley into Lake Minchumina. The tests went quite well and I was able to talk through the 147.96/146.01 repeater to Fairbanks, Minchumina and Anchorage with the 25 watt IC-255A. Jim WB4WBL and I were conducting a test from McGrath to Nikolai on .52 when Dick, KL7IS with his 150 watts and Rhombic jumped in and surprised us all from Minchumina. The two meter equipment also proved its worth when we mounted our own SAR mission. Jay, KL7IEN went air mobile with KL7EB's Tempo hand held and we worked .52 while the plane found Colonel Vaughan. Jay reported the position and conditions on .52 to me and I relayed back on HF to Hdqtrs and McGrath. Amateur Radio got a few more kudos that day.

The time spent on the checkpoint and in McGrath really were worth the lack of sleep and the lack of conveniences one gets used to. A formal request has already been filed with Ham Headquarters for a checkpoint next year. The stories you hear from the trail whether told by mushers, checkers, pilots, veterinarians, or hams are all true...if you don't believe it then the only way to really find out is to cover a checkpoint yourself on the IDITAROD.

Have you ever heard of the "Bunny-Boot Bop" in McGrath, Alaska???? Find out for your self and sign up for a checkpoint on the 1983 Iditarod.



73 x 88

*Betty*

Betty, KL7AP

President



## APRIL ROSTER UPDATE

OKAY BOYS AND GIRLS GET THOSE CRAYOLAS OUT AND UPDATE YOUR ROSTER WITH ALL THE LATEST CHANGES FOR APRIL FROM APRIL (AL7CV, THAT IS). BY THE WAY, IF YOU HAVE A CHANGE OF ADDRESS, TELEPHONE, CALL, OR THE LIKE PLEASE KEEP US UPDATED. YOUR ADDRESS IS MOST IMPORTANT AS WE SEND ALL CHANGES TO BOB PAGE, KL7HIU AND HIS MIGHTY TRS-80 COMPUTING MACHINE FOR UPDATED LABELS FOR THE NEWSLETTER. "IFIN YOU GET YOUR NEWSLETTER LATE AND DIDN'T REPORT YOUR ADDRESS CHANGE, SHAME ON YOU..." QRM THE CLUB RECORD-A-PHONE AT 345-0719 (272 IF YOU USE THE AUTODIAL ON THE REPEATER) OR APRIL'S OWN HOT LINE AT 345-0507. KUDOS GO OUT TO APRIL FOR GETTING ME THE UPDATES FOR THE NEWSLETTER THIS MONTH AS WITH MANY OTHERS SHE WAS OUT ON "YE OLDE IDITAROD TRAIL.

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### CHANGES:

MARSHALL RONNE, KL7EU, NEW ADDRESS: 732 NORTH BUNN, ANCHORAGE 99504  
PATTI AND DAVE OLSEN, KL7K & KL7L, NEW ADDRESS: BOX 10-427, ANCHORAGE 99504  
NEW PHONE: 345-5744  
LAVERN DAVIS, KL7MP, NEW ADDRESS: NAVAL SECURITY GROUP WINTER HARBOR, MAINE  
04693 (ANYONE WHO GOES TO MAINE CAN'T BE  
ALL BAD "YE ED")  
JIM & CATHY MOODY, NL7C & KL7NR, NEW ADDRESS: 8375 THORNCLIFF, SAN ANTONIO,  
TEXAS 78250. (512) 680-4516H  
(512) 925-2247W

### NEW MEMBERS (AND THERE'S A BUNCH):

WBØYNS	DICKERSON W. MACLEOD "MAC"	30-381 H CHERRY DRIVE ELMENDORF, 99506 753-5150(H) 552-2000(W)
N5AEN	ARTHUR H. WERTZ	8019 RIATA DR. SAN ANTONIO, TX 78227 (512) 674-8468(H) (512) 925-2228(W)
	DAVID R. OGLESBY	4110 COVENTRY, ANCHORAGE 99507 344-4118(H)
W7NI	STAN GRIFFITHS	18955 S.W. BLANTON, ALOHA, OR 97007 (503) 620-9100
	SCOTT M. DANIEL	PSC # 1 BOX 303 ELMENDORF AFB, 99506 552-5141(W)
KL7KI	BILL THOMAS	6508 MINK, ANCHORAGE 279-0543
W4IGM	JOHN W. SHULL, SR	1410 WOLVERVINE, ANCHORAGE 333-6858(H) 552-4618(W)
KL7HKL	RUDY JOHNSON	BOX 4-1646, ANCHORAGE 99509 333-6693
KL7BW	GEORGE MENARD	SRB BOX 374B, WILLOW, 99688
KL7NG	BIMJI MENARD	733-2406
	WILLIAM D. EVERETT	PSC#2 BOX 3826, ELMENDORF AFB, 99506 753-7251(H)
	STEVEN COOK	21-453 CITRUS AVE. "E", ELMENDORF 99506 753-4170(H)
KL7SQ	HANS BICHOLDT	2607 KONA LANE, ANCHORAGE 99503
KA5LEU	WAYNE BETTIS	21-662 B APRICOT ST. ELMENDORF, 99506

WELCOME TO ALL THE NEW MEMBERS OF THE CLUB...SEE YA AT THE MEETINGS.....

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CONGRATS TO BRYCE, AL7DL, FOR HIS PROMOTION TO STAFF SERGEANT ON APRIL 1ST. NOT ONLY A "DUMMY LOAD", BUT ALSO AN "APRIL FOOL".

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Just a note not to forget the Mat Valley Club CW contest to be held the week-end of April 3rd. For further details look at the front page of last months newsletter.





# A YL'S POINT OF VIEW

*Kirsten Petersen KL7PQ*

Iditarod! I've been in a mad rush for the last two weeks trying to get everything ready for my trip to Koyuk. I've begged or borrowed gear from half the hams in Anchorage; sometimes it seems like the only thing of my own I'm taking is my radio. My living room is a disaster area: gear is scattered hither and yon; floor space is nonexistent. I've been warily eyeing mounting stacks of gear for several days now. The two duffel bags and box I intend to cram all this stuff into are looking pitifully outmatched.

It's hard to be patient. Here the race is more than half over. Lots of hams have left and come back already, and I'm still cooling my heels in Anchorage. Everyone has come back on such a high! I want to get out there!

To pass time, I think of what I'll be doing. I'll see parts of Alaska that I've never been to before. I'll witness the race first-hand and give information to the press instead of wait for them to give it to me in the form of a newspaper or radio broadcast. I'll put in a lot of time on my rig, something of a rarity so far. If I'm still mike-shy by the time I get back, I'm a pretty hopeless case.

Oh, and I'm going to be involved in an experiment. "Waolpuck of Shaktoolik" (Jim Larsen WAØLPK) and the "Koyuk Kid" (me!) are going to operate two-meters between the two checkpoints (we hope). Visions of a Unalakleet--Shaktoolik--Koyuk--Elim two-meter net danced through our heads, but that will have to wait a year.

Less than two days! I'm all bubbly inside!

73's,

Kirsten KL7PQ

P.S. I found out today that KL7LO (Safety) and WL7N (Elim) left today. I think I'm the last one to leave. Now I really feel left out. I'm even wondering if I'll get to Koyuk before the first dog-teams. The race is on!

\*\*\*\*\*

There will be no statement of financial condition this month. Before everyone panics, our treasurer, Fred, KL7HM has not booked passage to Rio with the cash.....Due to the fact that the Board of Directors meeting was to be held on 31 March, after the Iditarod Trail Race, he felt it would be inappropriate to present the report in the newsletter without first submitting it to the Board for approval. Stay tuned next month for a double barrel report....

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## AL7DL PRODUCTIONS PRESENTS: MORE TEMPO S-1 MODIFICATIONS

BY - BRYCE RUMERY, AL7DL

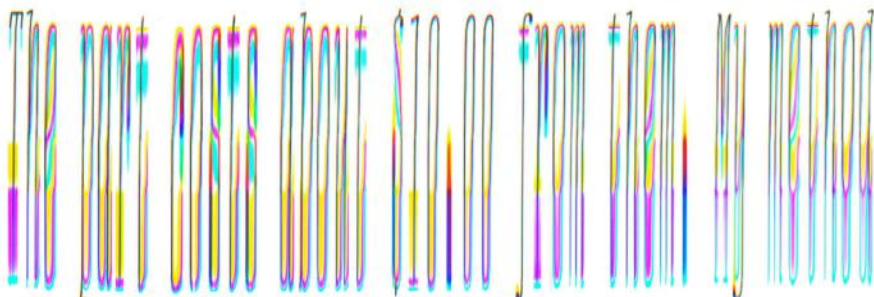
Last month I covered the High/Low power switch for the S-1. This month I give you a "number one good deal": three mods for the price of one article. The mods I intend to go over this month are: the addition of a BNC connector, an on/off switch, and a MARS mod. Here goes.....

First, an easy one: the addition of an on/off switch. I find that owning Icom handhelds (Debbie, KL7RQ has the sacrificial S-1) one handy feature is the on/off switch. This switch allows you to leave the volume control set in a comfortable position all the time without having to fiddle with it every-time you turn the radio on. Parts needed are: 1 SPST microminature toggle switch (like the one you used in the hi/lo power mod, remember?), and some hook up wire. Tools are equally simple, a soldering iron, some solder, and your favorite tool for boring a hole in the case of your beloved S-1. Open the back of the S-1 and expose the transmitter board. Remove the transmitter board either by laying it out to the side of the radio with the multipin interface to the synthesizer board still connected or remove the transmitter board altogether by unplugging it from the synthesizer board (I find this works best as the transmitter board tends to get in the way). At this point locate the on/off/volume pot at the top of the radio. Find the primary power lead on the pot/switch (if you have problems finding it use a VOM and locate the wire with power (DC) to it all the time). At this point I strongly suggest that you remove the battery pack, because you will be soldering and desoldering on the hot lead and it's not a good idea to be soldering around a live circuit. Disconnect the hot lead and solder it to one side of the SPST switch. Connect a short piece of the hook up wire from the point at which you removed the hot lead from the on/off/volume pot and the other end connect to the other side of the SPST switch (the length of the hook up wire depends on where you are going to mount the switch on your S-1). This completes the mod...except for mounting the switch....that I leave up to you. A word of caution; be sure that wherever you mount the switch be sure the case will close without shorting out....think about it BEFORE you drill the hole. It is wise also to insulate the switch leads before you button up the radio.

The MARS mod is another easy one...no parts or tools needed save for a small screwdriver to remove the back of the S-1. There are two ways to do this mod; the easy (lazy) way (which I don't recommend) and the ever so slightly harder method. The easiest method is to simply force the thumbwheel stops. This will allow you to transmit above and below the amateur band. There is only one problem with this way; the thumbwheel stops are still floating around in the switch and can fall into place at the most inopportune times giving you a very strange frequency range (like 141 to 144 MHz). The other method is to open the back of the S-1 and remove the transmitter board (by now I hope you can do this), and pop the thumbwheel switches out (they are held in with plastic spring clips). With the Thumbwheels hanging out the top of the radio pry the side off the switch at the "1 MHz" end. Inside you will find two little plastic (or cardboard) cylinders, remove these (they're the stops). Put the end back on the switches, put the switches back in the radio, put the radio back together and like magic your S-1 has a range of 140 to 149.995 MHz. I am a NAVY MARS member and Navy MARS repeaters use a standard 600 kHz offset therefore I never persued a mod for nonstandard offsets, but maybe, some-day....

As I was writing the first part of this article I was thinking about the BNC mod and came to the conclusion that there is a far easier way to add a BNC at this time in history than the way I did it some years ago. Henry Radio now sells an adapter which screws right into the antenna jack and provides a BNC

connector on the other end





causes you to chop up your handheld somewhat, so I would advise you to invest a "ten spot" in the adapter from Henry Radio. I like the idea of having a BNC available for the S-1 as I am not overly impressed with the external antenna connector that comes on the stock radio. If anyone has any questions on the mods or needs some help feel free to contact me at home (you can get my address and phone number here in the newsletter). I also have a copy of the Tempo S-1 service manual if anyone has any problems with schematics and alignment procedures.

73s for now

Bryce, AL7DL

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THE BETTER LATE THAN NEVER DEPT.

ABOVE IS A PICTURE OF OUR FEARLESS LEADER BETTY RHODES, KL7AP PRESENTING AAC STUDENT, MATTHEW MANNHARDT WITH THE ANCHORAGE AMATEUR RADIO CLUB SCHOLARSHIP AWARD FOR THE 1981-1982 YEAR. REMEMBER THAT OUR SCHOLARSHIP FUNDS COME FROM THE LIFE MEMBERSHIPS IN THE CLUB. THE LIFE MEMBERSHIPS ARE \$ 100.00 AND MAY BE PAID AS A LUMP SUM OR OVER A TIME PAYMENT PLAN. IF YOUR INTERESTED IN BECOMING A LIFE MEMBER OF THE CLUB (WHICH BENEFITS BOTH YOU AND THE CLUB) GET IN TOUCH WITH APRIL, AL7CV, OUR MEMBERSHIP CHAIRPERSON FOR MORE DETAILS.

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A NOTE TO YOU FOLKS THAT WANT TO PLACE AN AD IN THE NEWSLETTER: IT'S FREE TO MEMBERS OF THE CLUB, BUT I ASK THAT IF YOU WANT AN AD REPEATED IN THE NEXT NEWSLETTER LET "YE ED" KNOW BEFORE THE NEWSLETTER DEADLINE..... AS THE OLD SAYING GOES: "I AIN'T NO MINDREADER....."



## WORDS OF WISDOM FROM KL7IKX

Our master technician, Doug Dickinson, KL7IKX, forwards the following article to the desk of "Ye Ed". It's hoped that the Q&A portion of the text will clear up a few misconceptions we all have about KL7AA repeater and repeaters in general.

### AUTODIAL NUMBERS:

911 = 911 EMERGENCY - INJURY OR EXTREME DANGER  
278 = 269-5511 ALASKA STATE TROOPERS (NON-INJURY)  
273 = 279-1441 ANCHORAGE POLICE (NON-INJURY)  
272 = 345-0719 ANCHORAGE AMATEUR RADIO RECORD-A-PHONE  
411 = 411 TELEPHONE INFORMATION

### ACCESS CODES:

541 = AUTOPATCH ACCESS - WITHIN 5 SECONDS AFTER THE COURTESY TONE (BEEP)  
542 = REDIAL (GOOD FOR ABOUT 20 MINUTES IF NO OTHER AUTOPATCH IS MADE AFTER YOURS)  
ENTER WITHIN 5 SECONDS AFTER THE BEEP.  
#41 = "CLEAR" (DISCONNECT) FOR USE ANYTIME DURING OR AFTER AN AUTOPATCH

PAD TESTS: ANY 3 NUMBERS FROM A ROW. THE LAST ROW MUST GO IN BACKWARDS, ie: # 0 \*

EXAMPLE: 1, 2, 3 = "OK" (sent in CW) IF TONES ARE OF THE CORRECT LEVEL AND FREQUENCY  
1, 4, 7 = " " " " " " " " " " " " " "  
#, 0, \* = " " " " " " " " " " " " " "

### QUESTIONS COMMONLY ASKED AND THEIR ANSWERS:

"Q" - Why must my radio tone pad be set for 3 kHz deviation?

"A" - *Radio deviation circuits use diodes to clip the audio level above a certain point. The clipping causes distortion, distortion fools the tone decoders. 3 kHz for your highest tones (#) will normally mean about 2.5 kHz for your lowest tones (1). For a radio set for voice peaks of  $\pm 4.8$  kHz this 3 kHz level is far enough the clipping level to avoid distortion.*

"Q" - Why  $\pm 4.8$  kHz for peak deviation?

"A" - *This repeater and, infact, almost all amateur repeaters are commercial radios retuned for the amateur bands. Commercial narrow band standards call for + 5 kHz maximum deviation!! At about  $\pm 7$  to 7.5 kHz a narrow band receiver will think the incoming audio is noise and squelch off. 4.8 kHz allows for  $\pm .2$  kHz for subaudible tones if you use them. Remember, more deviation is not louder, only more distorted (from clipping and squelch).*

"Q" - Why must I identify the repeater before and after an autopatch?

"A" - *There is more than one station with the call of KL7AA, but only one with the the call of KL7AA/R on the VHF bands. To avoid confusion and to allow the trustee (Bill, KL7ITI) to maintain the laws governing automatic phone patches we require your callsign and that of the repeaters' at the beginning and the end of each autopatch.*

"Q" - If I forget to identify myself and start an autopatch, what will happen?

"A" - *Most likely the patch will be disconnected by a control operator and you'll*



be asked to identify yourself. Remember the control operators are responsible for the legal operation of the repeater. Citations for incorrect operation must be answered by the trustee of the license and we could lose the club license if the violation was severe enough, meaning, NO REPEATER OR AUTOPATCH FOR ANYONE.

"Q" - Can I use the autopatch to call long distance, say to Palmer or Wasilla, or from the Valley or Kenai to Anchorage? Can I call the "lower 48" and bill the call to another number?

"A" - The autopatch shall not be used to circumvent the normal toll facilities. Long distance calls out of state are automatically locked out of this repeater by the microprocessor. Any attempt will result in the system disconnecting the patch before the call is completed.

"Q" - If an autopatch is in progress, can I break in and talk to the person on the phone?

"A" - Yes, but it would be in very bad taste. Remember our end of the patch is like a party line. You wouldn't think of listening in on a party line on your phone and break in on the conversation, don't do it on an autopatch. If you have an emergency, by all means break in and state the fact and request the radio operator disconnect. If you want to talk to the party called wait till the patch is completed and then recall them using the REDIAL (542).

"Q" - Can I call my office and ask for messages?

"A" - ABSOLUTLY NOT!! No business calls or calls that will be of any monetary gain or loss to or from you or your family, friends, or associates may be done via amateur radio. If you think there may be the slightest question as to the legality of the use of the patch don't use it. Better to find a pay phone and make the call or wait till you get home. Again, if a control operator hears a violation or a suspected violation he will disconnect the patch. Don't get mad. Remember, the control ops are responsible for the legal operation of the repeater.

"Q" - What are the three R's (in CW) at the end of an autopatch?

"A" - The microprocessor is telling you that it has disconnected the patch. You need only hear one "R" before keying up and clearing the repeater.

"Q" - What other messages will I hear on the repeater?

"A" - CP - Commercial Power - at the repeater  
EP - Emergency Power - at the repeater  
PF - Power Failure - This message is most common and will continue until cleared by a control operator.  
RRR - acknowledgement of command codes and/or clearing the patch  
TTT - Test by control operator  
OK - Tone pad test tones all correct in frequency and level  
73, 88, or AARC - Tail message when control operator is not on duty. This means the patch is off (and will say so itself if the patch is brought up). The emergency AUTODIAL patch is on (normally).  
OFF - The patch is off and you attempt to bring it up.  
(beep) - Courtesy tone after each transmission. Wait for the beep after each transmission as it resets the timer and allows other users to break the machine.

"Q" - When should I use the word "Break" ?

"A" - ONLY for an emergency. Use your call or the suffix of your call if you wish to join the QSO or need to use the machine. Remember, a QSO in progress should never be broken to start another. move the called station to another repeater or, "heaven forbid" SIMPLEX. (Yes, Myrtle simplex is alive and well somewhere).



- "Q" - Why can't I get the repeater to comeback to me if I just "kerchunk" it?
- "A" - *The microprocessor looks for a carrier and audio and decides if it's a valid carrier with intelligence on it, or a noise burst, kerchunker, etc. Remember the law states YOU WILL IDENTIFY YOUR STATION EACH TIME YOU USE IT. If your wondering if the repeater is hearing you key up, identify, and listen for the reassuring "beep". That will tell you what you want to know, LEGALLY....*
- "Q" - Do I need to wait for the IDer to end during a QSO?
- "A" - *No. The timer automatically resets at the beginning of an ID sequence so you can key up and continue the QSO without waiting for the IDer to end its' cycle. Remember though to wait for the "beep" at all other times.*
- "Q" - How do I get the voice announcer (information tape) on the repeater?
- "A" - *Call for one of the control operators and ask him to bring up the announcer for you.*
- "Q" - Why won't the control operator tell me where the repeater is located?
- "A" - *We share the site as a guest of a commercial user. We are on private property and the owner requests that only the control operators/technician have access.*
- "Q" - Who are the control operators?
- "A" - *Bill Reiter, KL7ITI, Trustee of KL7AA license  
Bryce Rumery, AL7DL, Control operator  
J. D. Delancy, K1ZAT, Control operator  
Jim Lafollette, WB4WBL, Control operator  
Doug Dickinson, KL7IKX, Control operator/technician  
Three other alternates & emergency operators*
- "Q" - Why do we need so many control operators and in fact, why any control operators? Do other repeaters have control operators?
- "A" - *We try to have enough control operators so the autopatch is on more than 90% of the time. We will always strive for 100% coverage. The law is very specific in its response to automatic repeater stations. Someone must be responsible for its correct and legal operation. All repeaters have at least one control op.*
- "Q" - Who makes our repeater? What kind is it?
- "A" - *Our repeater is a General Electric Progress Line with a solid state receiver and a hybrid transmitter (containing both transistors and tubes).*
- "Q" - What power level is th repeater?
- "A" - *We operate the transmitter at 25 watts for good tube life and because we don't really need more. Remember we have a high location and a gain antenna. Our effective radiated power is between 100 and 200 watts and the receiver is set for .2 uvolts for 12 dB SINAD (12 dB SINAD is the industry standard for rating FM receivers - replaces the 20 dB quieting method.*

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#### ANCHORAGE AMATEUR RADIO CLUB MEMBER CAUGHT OUT OF UNIFORM

J. D. DELANCY, K1ZAT, WAS RECENTLY CAUGHT OUT OF UNIFORM WHILE AT A MEETING ON ELMENDORF AFB. AS THIS REPORTER UNDERSTANDS IT SOME MILD RIBBING TRANSPIRED AFTER WHICH TIME TECH SERGEANT DELANCY WAS INFORMED THAT HE HAD BEEN PROMOTED TO MASTER SERGEANT UNDER THE STEP PROGRAM (STRIPES FOR EXCEPTIONAL PERFORMERS). CONGRATS GO OUT TO J. D. FOR A JOB WELL DONE.



## RULES FOR APRIL 18THS BUNNY HUNT

Here from our social chairman, Dave, KL7EB, are the rules for the April club social.....The Bunny Hunt....

### BUNNY'S RULES:

1. The bunny, our own J.D. Delancy, K1ZAT (chosen because he's such a cute little fella), shall hide.
2. The bunny will transmit on 146.52 MHz for one minute and be silent (at J.D.'s option) for two minutes.
3. The bunny shall not move.
4. The bunny shall not multiply during the hunt.
5. The bunny shall not hatch any eggs during the hunt.
6. The bunny shall use a third ear for an antenna.
7. The bunny shall be on his own.

### HUNTER'S RULES:

1. Hunters will meet at Russian Jack Ski Slope by 12:55PM for a 1:00PM start, April 18, 1982 (Sunday).
2. Hunters will report start and finishing odometer readings to the bunny.
3. Primary hunters will report to the bunny how many other hunters are in in the car with them or on their team.
4. Hunters may use any radios and antennas they wish to in their quest for the bunny.
5. At the appointed starting time (1:00PM) hunters will proceed to the bunny's location by the shortest possible route.
6. Hunters may check the bunny's direction as often as they deem necessary.
7. Hunters will proceed to the bunny in a legal and safe manner.

### GENERAL NOTES ON THE BUNNY HUNT:

A "bunny hunt" is a hidden transmitter hunt. The object in this transmitter hunt is to find the bunny (K1ZAT) in the shortest time while proceeding to his hidden location via the shortest route (therefore the rule about the odometer readings). Dave informs us that there will be prizes for the winners.

"YE EDs" note: A bunny hunt, fox hunt, transmitter hunt or whatever one wants to call it is a lot of fun....I've participated in many..... Along with the fun there is a serious side to it. Finding a hidden transmitter sharpens our direction finding skills (DFing) and therefore can be a great asset to the club in cases of malfunctioning transmitters or jamming of the local repeaters. For more information about equipment used in a bunny hunt I suggest that one look back in the 1981 issues of QST & 73 Magazines. It seemed that there were many articles on that very subject. For those of you that have never been on a bunny hunt come on out...you may not win, but you will have a good time. Rumor has it that if the club members become too good at a hidden transmitter hunt we may have to resort to the ultimate.....THE HIDDEN RECEIVER HUNT....HI.

Bryce, AL7DL



# A DIRECTION FINDING ANTENNA

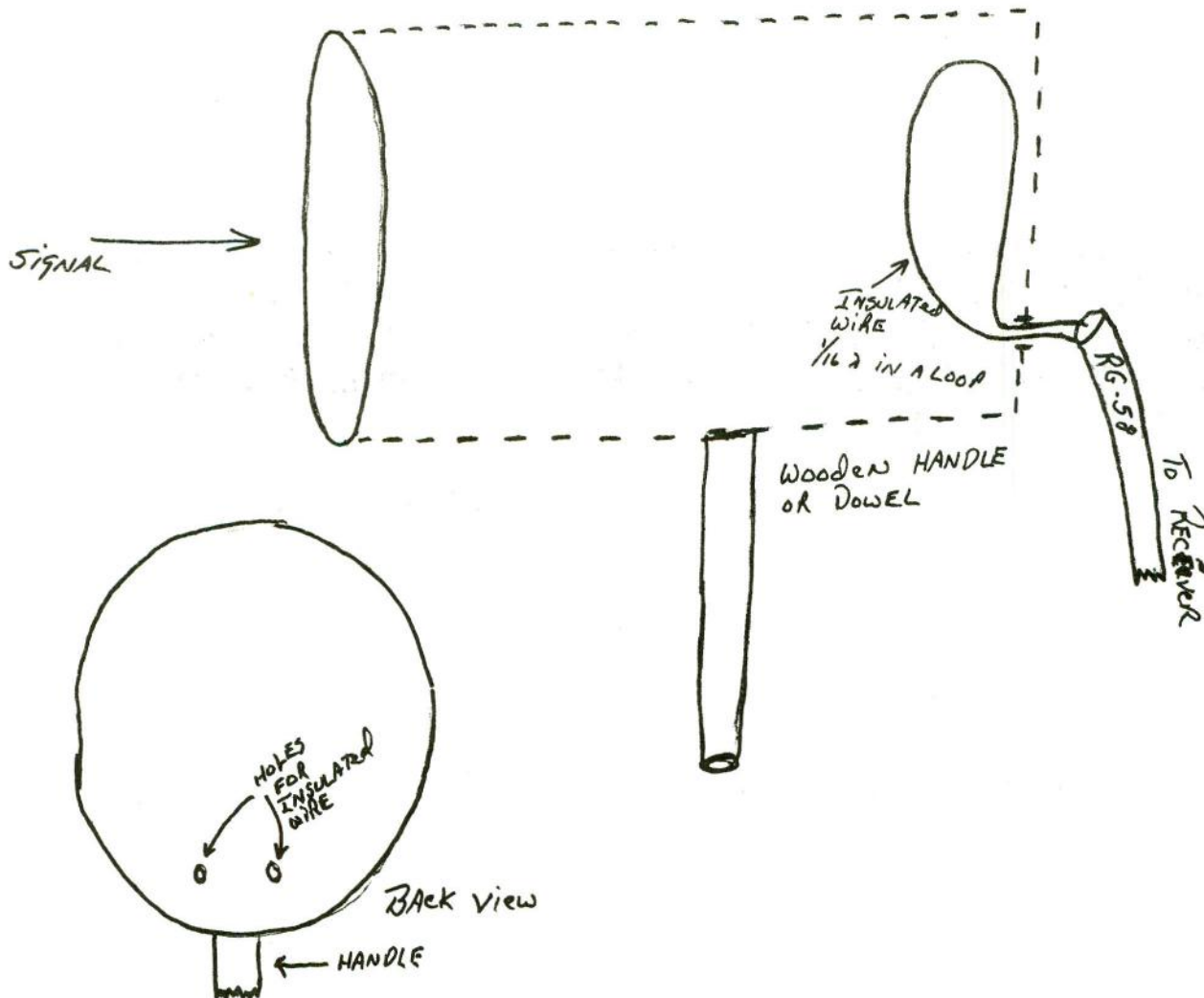
By - Bryce Rumery, AL7DL

This antenna is simple, cheap, and easy to construct from materials you probably have around the house or in your "junk box". It works very well and I have been successful in finding hidden transmitters with very little trouble. What we have here is a shielded loop of  $1/16$ th wavelength or less surrounded by a metal enclosure open at one end. The loop and shielding will show direction without the usual twin lobes common to loop direction finders. Good luck and good hunting.

## Materials needed:

- Empty One pound coffee can
- 5" or insulated, stiff wire
- Dowel or wooden handle
- 5 to 10 feet of RG-58 Coax

NOTE: Don't try transmitting through this antenna as the mismatch is bad!!! Have a coax switch between your transmitting antenna and this receiving antenna so you can swap between them.





To use the loop, simply point the loop out the window of the vehicle and try to get the loop above the roof of the car if possible and rotate the loop around in a circle until the hidden transmitter's signal is the highest. This is the direction in which you want to go. There are other factors that come into play in a hidden transmitter hunt, too. If the "bunny" is in an area where surrounding objects may reflect the signal or he is using some sort of directional antenna system and rotating it everytime he transmits you may have many false readings. One of the best methods of tracking down a hidden transmitter is to work with several other people in other vehicles using the same sort of direction finder. Know where the other members of your team are and triangulate on the "bunny" using a compass, map, and a ruler. See in what direction each team member is receiving the "bunny's" signal the strongest and draw a straight line in that direction out from where that team member is located. Get three readings from your team, and where the lines intersect that's the area you should look for the "bunny". The main point of the bunny hunt is to take your time, get your bearings, and travel with caution. Remember, the "bunny" is a crafty beast, knowing J.D. he probably has more than one trick up his sleeve, so beware, he may pull a fast one on 'ya.

Another nice piece of gear to have with you is a step attenuator when you (and your team) get in close. In close range even the best of shields wont help and the attenuator is a blessing.

One final tip: Start out a ways and work in. This is true if you are working in teams. It's a whole lot easier to triangulate on the transmitter from a distance.

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HEY ALL OF YOU THAT PARTICIPATED IN THE IDITAROD TRAIL RACE, ESPCIALLY THOSE OF YOU THAT WERE OUT ON THE TRAIL..... JOT DOWN SOME OF YOUR EXPERIANCES AND GET THEM TO ME FOR THE NEXT NEWSLETTER..... I'M SURE THAT THE OTHER MEMBERS OF THE CLUB WHO WERE NOT OUT THERE WOULD GET A CHARGE OUT OF YOUR EXPERIANCES.....

BRYCE, AL7DL

MAY NEWSLETTER DEADLINE - APRIL 23, 1982







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